Mohave

County

XXXI.

KINGMAN, ARIZONA, SATURDAY, MAY 17, 1913.

NO. 33

Shannon Company is Praised by Walker.

Shannon's death warrant, obituary and epitaph have been written half a dozen times by as many engineers and cheaply, which the management is geologists in the past 10 or 12 years. Eight or nine years ago it was declared that there was less than 150,000 tons of possible ore in the property. As a result Shannon has many enemies, because no one who has condemned the property is able to forgive it for making good.

I am satisfied that there is more ore in sight in the Shannon property now than there was the first time I went through the mine eight years ago, and copper per ton, which probably will be the new ore being opened up at greater depth is fully as high in grade if not slightly richer than that mined several years ago. It is interesting to note, also, that neither has the tonnage of concentrating ore increased nor the percentage of smelting ore de. for flux from its leonard group located creased.

The known mineralized area is much larger now than it was a few years ago. It has been demonstrated that the ore goes to greater depth and the east and northeast than anyone until quite recently believed. A lot of good ore is being opened up in new ground on the Shannon group of claims and a large area remains unprospected.

Geologically considered the Shannon group of 80 or 90 acres is a big mass of limestone lying on quartzite. The limestone has been cut irregularly by numerous porphyry dikes, which in places carry good chalcocite contracting ore. Along the contacts and extending out into the limestone are large and small deposits of smelting ore. The irregular shape and occurrence of these ore bodies make it impossible to measure up tonnage accurately in advance; but the 1,000 feet of new development and exploratory openings, which are being driven every month, are continually finding ore, as are also the superficial open cut workings.

Since Shannon began producing, 11 or 12 years ago, it has taken out 2,-301,905 tons of ore, of which 1,202,130 tons averaging 4.43 per cent copper was smelting ore; 1,087,930 tons was concentrating ore averaging 3.10 per cent; 7,888 tons was used for converter linings and 4,057 tons has been leached experimentally. A conservative estimate of the company's production frem its own ores is 13 ',000,000 pounds of copper. That it will produce at least as much more from the Shannon group of claims alone seems reasonably certain. What it will do in excess of this will depend largely upon future developments in its outlying groups of claims.

Few people realize that all of Shannon's ore is mined by hand. On top of the mountain where the mine is becomes necessary to make very rapid the 9th of April. progress at any one point.

ed up ahead and has plenty of ore in it was the desire to stay and further that Shannon has recently discontin- in moving off was caused solely by incustomary 800 and 850 tons of ore with time. It is claimed the property is the mills at a cost of 600\$. one day shift. Although one of Ari- now looking better than at any time zona's new labor laws makes it im- since the Phelps-Dodge interests have possible to get more than 7 1-2 hours taken hold and while the lower tunnel the old Hopper mine, upon the ore of maintaining this output with about to which it was being driven, the ed as soon as it can be completed and 550 men employed at the mine in all showing is said to be sufficient to set up. In setting up the Humphreys capacities.

About 125 tons of ore is being quar- gineers. ried from open cuts above and between

bonates and even copper glance are on the claims, as the development when worked at the mine, will lose found. The average grade of this ore is around 4 per cent.

There is a considerable tonnage of low grade ore that can be mined very planning to leach. It will not yield up its copper profitably by any other system of treatment, and the experimanagement to believe that this ore addition Shannon has 1,000,000 tons of leached some time.

Outside of the Shannon group the high grade ore from its El Paso group or claims nearby, and is getting such tonnage of iron sulphides as it needs near Courtland. Its Copper Bell ores carry a heavy excess of iron and sulphur from 34 to 2 copper and 1.60% in gold and silver. As a rule these ores cost about 78 per ton more than of the first, the Copper Queen engialso that it extends much farther to they yield in copper, gold and silver; but they are so valuable a flux that their use adds to Shannon's profits. Recently the Leonard group ores have been running higher in copper than previously.

In a property adjoining and partly surrounding Shannon's and group of four claims, the Arizona Copper company has developed a very good deposit of porphyry concentrating ore. Indications are that Shannon has a big shoot of ore on the same dike. This property probably will be prospected soon.

Last year Shannon's copper cost was 11.42 cents per pound. The principal reason for this was that more low grade ore was mined and sent to both mill and smelter than would have been had the price of copper been lower. The company simply took advantage of the fact that more of its low grade ores could be handled profitably on a high metal market. An advance in hours also contributed to the higher copper cost.

Since the first of the year the management has been making a special effort to cut expenses and to increase the efficiency of its workmen. I understand that it has succeeded in cutting down its copper cost materially.

With the metal selling at 15 1-2 cents Shannon should be able to make perfecting it that it feeds automaticala profit of 3 1-2 to 4 cents a pound of copper produced and earn between 1.60% and 28 a share for its stock for many years to come.-Clifton Copper

Copper Queen Co.

Gets No Extension

The Copper Queen Company, which located, approximately 1,000 feet has been working the claims of the above the railroad, there is no avail- Sheehy Bros., Wm. Murphy and P. J. able power, and experience has dem- McCarty and others, in the Harshaw onstrated that drifts can be driven and district, near the World's Fair, for the ore mined and delivered more cheaply past few months, has moved off, on acby hand than it could be with the aid count of being unable to secure an exof any power that could be supplied, tension of time. The group consists of Of course hand work is slower; but the eight claims, and the time for the first rock is soft and there are so many dif- payment was up on the first day of ferent faces, drifts, crosscuts, tunnels May, having been extended to that and stopes in the ore area that it never date by the owners of the claims, from

While the big company has moved The fact that the mine is well open- off, bed and baggage, it is understood work out of a man daily, Shannon is is not in far enough to catch the vein which one of the mills will be operatsatisfy even the Copper Queen en- mill, it is only necessary to place it

the old workings on top of Shannon the World's Fair, and not over a mile cost, as rock is available everywhere hill. The country is so precipitous and a half from the Three R, which and a few sacks of cement can be that there is plenty of dumping room has been producing at the rate of over readily packed to the millsite. for waste. In the large areas that are a hundred tons a day for months. It being broken down numerous bunches was confidently expected the big cop- not quite good enough to ship, but of good ore, red and black oxides, car- per company would take up its option which carries good milling values

work was said to be progressing very satisfactorily, and the amount of the the new mill. Its low cost and ease of first payment was only a few thousand transportation, at least, are points in held in America will take place in dollars.

That failure to get an extension on the option, and for no other reason. was the cause of the big company moving off is well known by local mental work done so far leads the mining men. Originally the day of the first payment was fixed at April will soon be an important source of 9th. The company worked the full production. It is estimated that there crew of probably thirty men up to the is nearly 1,000,000 tons of 2 per cent last minute on the 9th and not even leaching ore in one deposit alone. In the owners of the claims, nor Ed. Sheehy, acting for the owners, knew tailings that carry 20 to 22 pounds of that an extension was wanted. It seemed certain the company had decided to take the claims. However, on the next day, the engineer in company is mining a small tonnage of charge requested of the owners an extension of time up to the first of May. This extension was gladly granted. When the first of May arrived, there was nothing to indicate the company had any intention of abandoning the ground. The full crew worked on the day the option was up, as it had done on the other occasion. On the night neer, Donald G. Miller, made a trip to the Sheehy Camp near Tubac, for a consultation with E. T. Sheehy, representing the claim owners.

Evidently the men interested in the group had decided the claims were worth as much to them as to the big copper company or perhaps they were disappointed at the eleventh hour manner of doing business-at any rate the extension of time requested was not granted, and the Copper Queen Company has moved off the ground .-Santa Cruz Patagonian.

Mill For Prospectors.

Nearly a year ago this paper published an article describing a quartz mill known as the Humphreys patent. At that time a mill was set up in this city, and some ore was run in testing the mill. It was the first mill of the kind built, and was crude in many re spects, although the principal seemed wages and the reduction in working to be a good one. Since that time much time and study has been devoted to perfecting details of construction, until it is now believed the weak points of the mechanism have been

Mr. M. Pike, who is a practical machinist, has in the past few months made many changes in the details of the mill, until he has succeeded in so ly and is handy and practical in every way. In making the machine, care has been taken that no part shall weigh more than 300 pounds. thereby making it practicable to set it up at points which can be reached only by trail.

by means of four hammers which are connected with a revolving shaft. These hammers strike a blow which is slightly glancing, thereby scouring the pulp, and it is claimed for the mill that in this respect the hammers are superior to stamps, especially in the working of an ore in which the gold is coated with iron. The capacity of the mill is about eight tons in twentyfour hours, upon quartz ore of average hardness. A 5-b.p. engine will furnish ample power to run the mill alone, while a slight increase in power will also run a concentrator, should concentration prove desirable.

The patterns and details are about sight finds confirmation in the fact develop the property, and the action finished and the Arizona Mine Supply Company, under contract with Mr. ued night work and is now mining its ability to get a further extension of Pike, will shortly be able to furnish

> Mr. Pike has shown his confidence in the mill by securing as option upon upon a solid foundation, preferably one This group of claims is just below of cement. This can be done at small

> > Mine owners having ore which is

nothing by looking into the merits of its favor which are manifest to all .-Prescott Courier.

The Ray Consolidated.

President Sherwood Aldrich of Ray Consolidated, has just returned from a three weeks' visit to the property. and speaks enthusiastically of conditions there. March scored a new high record production, and the lowest cost per pound yet attained. The tonnage treated was 791,956. To a Boston News Bureau representative Mr. Aldrich said: "Six years ago, when we purchased the property there were no more than fifty people within a radius of twenty-five miles, today there are 10,000. At that time there was developed 600,000 tons of ore, no surface equipment, and not to exceed one mile of underground workings, while the only means of transportation was the washed-out grade of a parrow-gauge road built by the former owners from the mine to an experimental mill at Kelvin. Today we have 85,000,000 tons of developed ore and are producing about 6,500 tons daily. Furthermore transportation is being conducted over our own standard gague road and in our own equipment to the Arizona and Eastern connection at Ray Junction. The surface plant at Ray is capable of uining and delivering almost any tonnage of ore that can be broken in the stopes and trammed at assembling points. The Hayden mill and power plant have been partially completed and the eighth section should be ready for operation within thirty days. A steadily increasing tonnage of copper is being treated at a steadily decreasing cost per pound and there is rapidly accumulating a considerable surplus for dividends. I have very little doubt that before the end of the year we will be treating 8,000 tons of ore daily, the amount for which we have been Dirivton against prepaid development which item added from 1/2 to 3-8 cent immense tonnage of low grade ore at per pound to cost."

Bundesturnfest.

One of the greatest gatherings ever Denver this summer when the Germans will have their international turnfest. The festival will begin June 25 and last five days. After that the visitors will begin sight-seeing tours that will occupy almost the whole summer. Thousands of Germans will go to Colorado and an equal number of people who are not Teutons will go along to take advantage of the exceptionally low railroad rates.

The turnfests are held once every four years. The coming one is the first that has ever been held in the West and will likely be the last-at least for a century. Germans from every quarter gather to engage in international competitions in athletics, singing, dramatic productions, literature, oratory and other matters. The festivals are the nearest approach America has to the world-famous Olympic games of Europe.

than Discovered.

"Mines are more often made than discovered," D. C. Jackling, the pioneer in the "porphyry" copper field, remarked recently. "I can recall almost no instance of big copper mines developed in the last few years that were not known for years before their development was taken up. Of course, development of mining and metallurgical methods is responsible for the existence of many great mines of today. In the early rush of prospectors great properties were passed over that later became more valuable than the richest of the early strikes-

"Take Utah Copper, for instance, the first and largest porphyry copper mine and considered by some to be the greatest copper mine in the world. The richest shoots were discovered and worked by men of Johnston's army returning from California thru ing for the past two years. Ray's record output of 4.420,000 pounds in March. Utah. The Ray Consolidated property was produced at a cost of about nine was examined by Dr. James Douglas cents a pound, which figure was in 1883, but at that time method, had reached after a charge of 12 1.2 cents not been found that could handle its

Baking Powder

Purity in food, lower cost of livingthese are the demands of the day.

Pure food is health, and health is economy itself. We cannot have health without healthful food.

The most healthful foods are the quickly raised flour foods - biscuit, cake, muffins, crusts and other pastry, when perfectly made from wholesome ingredients.

Dr. PRICE'S baking powder makes these foods in specially attractive, appetizing and wholesome form, and for both economic and hygienic reasons, such food should be more largely substituted for meat in the daily diet.

But bear in mind that alum, or unwholesome baking powder, can never make pure, wholesome food.